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SOME NEW SPECTROSCOPIC BINARY STARS.

In the progress of the determination of stellar velocities in the line of sight with the Mills spectrograph, three additional spectroscopic binary stars have been discovered.

ζ *Geminorum*. ($\alpha = 6^h 58^m$; $\delta = +20^\circ 43'$.)

About twenty-five spectrum plates of this well-known variable star have been obtained and reduced. The observed velocities are included between the limits $+24$ and -5 kilometers per second; the positive sign indicating recession from the solar system, and the negative sign approach. The period of the light variations of ζ *Geminorum* is 10.154 days. The spectroscopic observations show that this is identical with the period of revolution of the bright star around its invisible companion.

ι *Pegasi*. ($\alpha = 22^h 02^m$; $\delta = +24^\circ 51'$.)

The partial reductions of four spectrum plates of this star yield the following velocities, of approach:—

1897, October	7,—51 km.
1898, August	19,—45
	29,—37
September 28,	—22

The period of revolution is undetermined.

θ *Draconis*. ($\alpha = 16^h 00^m$; $\delta = +58^\circ 50'$)

Four plates of this star's spectrum give the following approximate velocities:—

1898, March 23,	$+16$ km.
April 6,	—34
1899, April 8,	$+10$
April 10,	—16

The period of revolution is undetermined.

W. W. CAMPBELL.

ASTRONOMICAL TELEGRAM.

(*Translation.*)

Lick Observatory, May 7, 1899.

To Harvard College Observatory: (Sent 5:50 P.M.)

Comet Tempel was observed on its return by Mr. C. D. PERRINE on May 6.9077, G. M. T., in R. A. $18^h 52^m 57^s.8$; Decl. $-4^\circ 32' 19''$.